

What is claimed is:

1. A toy vehicle which performs running control and steering control according to a signal from a radio controller, comprising:

a motor mounted on a front part of a chassis, for driving a front wheel.

2. The toy vehicle as claimed in claim 1, wherein the motor is mounted adjacent to a front wheel axle.

3. The toy vehicle as claimed in claim 1, wherein the motor is detachably mounted on the chassis.

4. The toy vehicle as claimed in claim 2, wherein the motor is detachably mounted on the chassis.

5. The toy vehicle as claimed in claim 3, further comprising an intermediate shaft which comprises a first gear and a second gear which are engaged with a third gear fixed on a motor shaft of the motor and a fourth gear fixed on the front wheel axle, respectively, and is detachably mounted on the chassis between the motor shaft and the front wheel axle.

6. The toy vehicle as claimed in claim 4,

further comprising an intermediate shaft which comprises a first gear and a second gear which are engaged with a third gear fixed on a motor shaft of the motor and a fourth gear fixed on the front wheel axle, respectively, and is detachably mounted on the chassis between the motor shaft and the front wheel axle.

7. The toy vehicle as claimed in claim 1, wherein one ends of right and left driven links are supported by the chassis swingably in a horizontal direction, a driving link is crossed over between other ends of the right and left driven links, two spindles are swingably supported by the right and left driven links, and each of the two spindles is connected to the front wheel axle.

8. The toy vehicle as claimed in claim 1, wherein one ends of right and left driven links are supported by the chassis swingably in a horizontal direction, a driving link is crossed over between other ends of the right and left driven links, two spindles are swingably supported by the right and left driven links, each of the two spindles is connected to the front wheel axle through a flexible joint, the front wheel axle is supported by the two spindles without being supported by the chassis, and the flexible joint comprises a spherical

shaped part provided on one of the spindle and the front wheel axle, and a cylindrical body provided on the other thereof, the spherical shaped part comprising protrusions at positions opposite to each other across a center of an axis of the spherical shaped part, slits being formed in the cylindrical body at positions opposite to each other across a center of an axis of the cylindrical body, the spherical shaped part being engaged with the cylindrical body with the protrusions fitting in the slits.

9. The toy vehicle as claimed in claim 1, wherein one ends of right and left driven links are supported by the chassis swingably in a horizontal direction, a driving link is crossed over between other ends of the right and left driven links, two spindles are swingably supported by the right and left driven links, each of the two spindles is connected to the front wheel axle through a flexible joint, the front wheel axle is supported by the chassis, the front wheel axle is supported by the two spindles, and the flexible joint comprises a cylindrical body provided on one of the spindle and the front wheel axle, and an engaging part provided on the other thereof to protrude radially, end parts of the two spindles and the front wheel axle fitting with each other, a slit for making the engaging part fit therein being formed in the cylindrical body,

and the engaging part fitting in the slit.

10. The toy vehicle as claimed in claim 7, wherein the driving link comprises a permanent magnet, and coils provided at positions across the permanent magnet.

11. The toy vehicle as claimed in claim 8, wherein the driving link comprises a permanent magnet, and coils provided at positions across the permanent magnet.

12. The toy vehicle as claimed in claim 9, wherein the driving link comprises a permanent magnet, and coils provided at positions across the permanent magnet.

13. The toy vehicle as claimed in claim 7, wherein the driving link comprises a coil, and permanent magnets provided at positions across the coil.

14. The toy vehicle as claimed in claim 8, wherein the driving link comprises a coil, and permanent magnets provided at positions across the coil.

15. The toy vehicle as claimed in claim 9,

wherein the driving link comprises a coil, and permanent magnets provided at positions across the coil.

16. The toy vehicle as claimed in claim 7, wherein the driving link comprises a non-magnetized magnetic material, and coils provided at positions across the non-magnetized magnetic material.

17. The toy vehicle as claimed in claim 8, wherein the driving link comprises a non-magnetized magnetic material, and coils provided at positions across the non-magnetized magnetic material.

18. The toy vehicle as claimed in claim 9, wherein the driving link comprises a non-magnetized magnetic material, and coils provided at positions across the non-magnetized magnetic material.

19. The toy vehicle as claimed in claim 1, wherein a rear wheel is provided with a suspension structure.